

DataGrid

Control in the edit form

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1 Basic information

1.1 Description of the control

DataGrid is a view table that displays database records retrieved by a query from a database, with the possibility search and filtering of records, and with the possibility of data exports and imports.

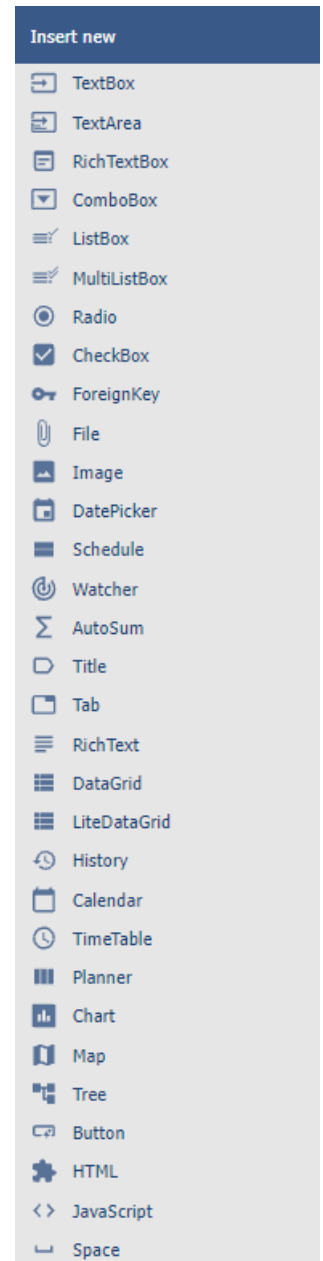
1.2 Create a new control

A new datagrid can be created as follows from the edit form using the toolbar with controls:

- First, the position in which the new datagrid is to be placed is determined by clicking the mouse in the edit form. This will highlight the selected position with a gray horizontal line. Then just click on the “DataGrid” item in the toolbar of the edit form, fill in the attributes of the new control in the newly opened dialog, and then save. This will insert a new datagrid in the pre-selected location of the edit form.
- If the required position is not determined before inserting a new datagrid, the new datagrid will be inserted at the end of the edit form.

1.3 Edit or delete a control

- For each existing control, a pencil icon appears on the left side of the edit form to change or delete the control's settings.
- Individual controls can be moved vertically in the edit form using the Drag&Drop method. Moving consists of grabbing the control, preferably after its name located in the left column of the edit form, and then dragging it to the desired place in the edit form.
- For safety reasons, it is important to have the function of moving controls enabled using the “Drag&Drop” check box located above the toolbar with controls. This field is unchecked each time you log in to the application.



2 List of tabs in the control settings dialog

General	Setting general properties
View table	View table column settings
Details	Settings for columns displayed in details
Search	Search settings
Help	Help text settings
Rights	Rights settings
Administration	Setting other properties

2.1 “General” tab

2.1.1 Common question

General	View table	Details	Search	Help	Rights
* Name	<input type="text"/>	<i>Dictionary...</i>			
Width	<input type="text"/> px	<i>10 - 10 000px</i>			
* Data source	New query				
Options	<input type="checkbox"/> Show the “New record...” icon <input type="checkbox"/> Deny customization <input type="checkbox"/> Allow data import <input type="checkbox"/> Allow MS Excel Import <input type="checkbox"/> Deny data export <input type="checkbox"/> Deny opening records <input checked="" type="checkbox"/> Allow multiple assignments <input type="checkbox"/> Activate marking records <input type="checkbox"/> Show sums of columns <input checked="" type="checkbox"/> Show only nested records <input type="checkbox"/> Hide data source <input type="checkbox"/> Snap to previous control				
<input type="button" value="Save"/> <input type="button" value="Save to all users"/> <input type="button" value="Delete"/>					

2.1.2 Name

- The name of the control displayed in the header of the view table.
- Placing the control name between the two bytes ensures that the view table is completely hidden if no record is the result of the query – for example, “| Records in the Book | | table.
- The right side can be followed by alternative HTML code, which will be displayed instead of the view table if no record is the result of the query – for example “| Records in the Book |”.

2.1.3 Dictionary

- The dictionary displays a list of names of other controls, forms, view pages, categories, applications, and application groups used throughout the application.
- The dictionary search is used to design the correct control name and to maintain the consistency of the nomenclature throughout the application so that controls with the same meaning located in different places in the application are named in the same way.

2.1.4 Width

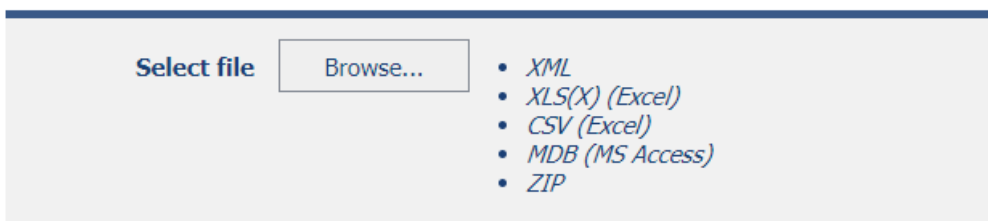
- The width of the control, expressed in pixels.
- If this input field is not filled in, the width of the look-up table will be determined automatically by the web browser.

2.1.5 Data source

- The data source defines the source database records displayed in the view table.
- Data source settings are made in the graphical designer of database queries. A detailed description of the database query designer is provided in the separate “Database Query Designer” guide.

2.1.6 Options

- **Show “New Record...” icon**
 - Checking this box determines whether an icon should be displayed in the header of the view table, which redirects the user to a specific edit form in order to create a new record in the database.
- **Deny customization**
 - Checking this box determines whether individual users should be disabled from changing the column settings of this view table.
- **Allow data import**
 - Checking this box determines whether an icon should be displayed in the header of the view table, which will allow data to be imported into the displayed database table from format files.
 - XML
 - XLS (X) (Excel)
 - CSV (Excel)
 - MDB (Access)
 - ZIP – zipped variant of the above formats



- **Allow MS Excel Import**

- Checking this box determines whether an icon should be displayed in the header of the view table, which will allow the export and subsequent import of the displayed data in the view table into the database table using an XLS file.
- This feature is only available for view tables that do not use joins.

Type Export data
 Import data

Options All columns

Export

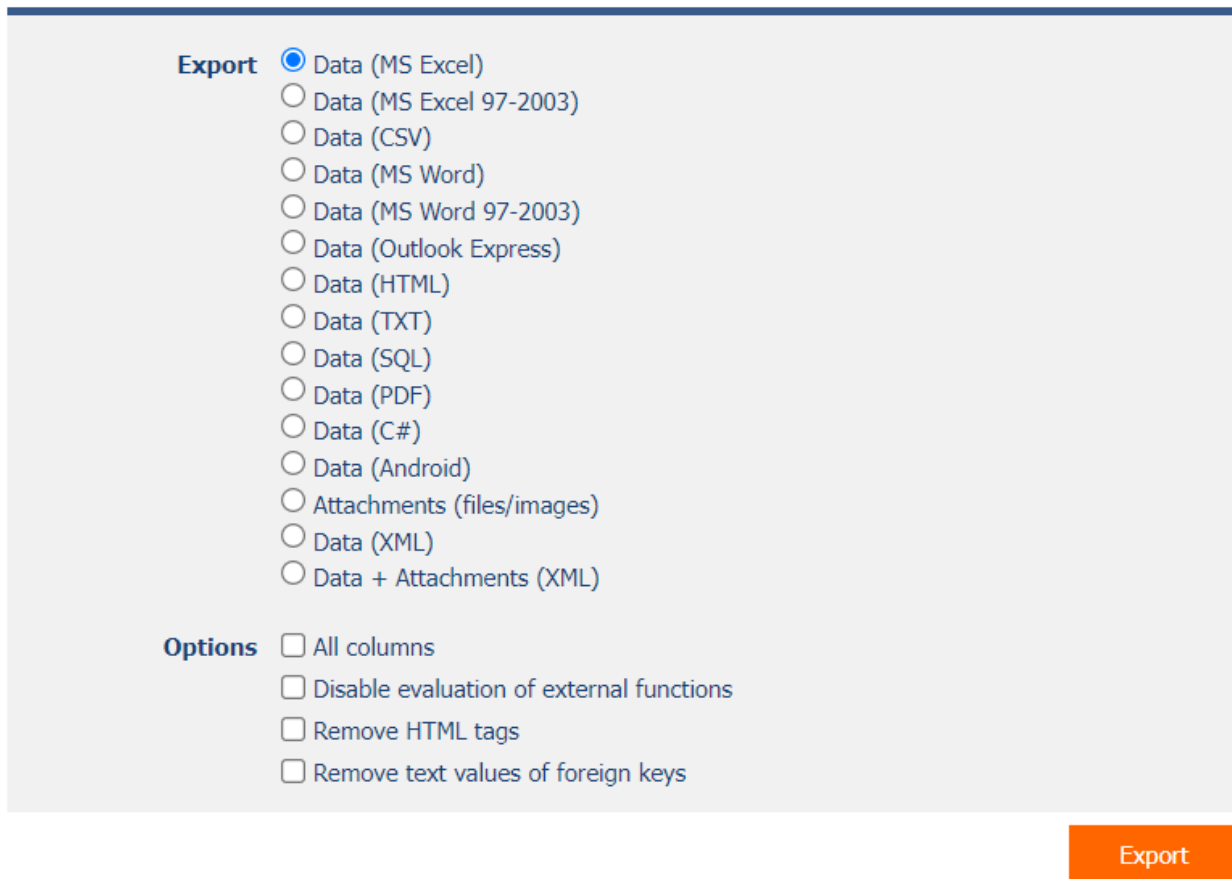
Type Export data
 Import data

Select file

Export

- **Deny data export**

- Checking this box determines whether an icon should be displayed in the header of the view table, which will allow the export of displayed data from the view table to format files.
 - XLS (X) (Excel)
 - CSV (Excel)
 - DOC (X) (Word)
 - EML (Outlook Express)
 - HTML
 - TXT
 - SQL
 - PDF
 - C#
 - XML



The screenshot shows a control panel for data export. It features two main sections: 'Export' and 'Options'. The 'Export' section contains a list of radio buttons for selecting the export format, with 'Data (MS Excel)' selected. The 'Options' section contains four checkboxes for additional export settings, all of which are currently unchecked. An orange 'Export' button is located at the bottom right of the panel.

Export

- Data (MS Excel)
- Data (MS Excel 97-2003)
- Data (CSV)
- Data (MS Word)
- Data (MS Word 97-2003)
- Data (Outlook Express)
- Data (HTML)
- Data (TXT)
- Data (SQL)
- Data (PDF)
- Data (C#)
- Data (Android)
- Attachments (files/images)
- Data (XML)
- Data + Attachments (XML)

Options

- All columns
- Disable evaluation of external functions
- Remove HTML tags
- Remove text values of foreign keys

Export

- **Deny opening records**

- Checking this box determines whether all users should be denied access to the edit form to open the displayed database record using the pencil icon that appears at the beginning of each row of the view table.

- **Allow multiple changes**

- Checking this box determines whether a text box or drop-down list with the selected value should be displayed in the view table instead of the control value itself, with the option to change the value without opening and editing the record in the edit form.
 - This function is applied only to controls that have the “Allow multiple changes” check box selected on the “General” tab.
 - Multiple changes can only be made by a logged-in user, a text box or a read-only drop-down list is displayed to the anonymous user.
- Checking this box determines whether the “Assign value...” item should be available in the drop-down list of individual column filters, which is used to assign a value to all marked or filtered records in the view table.
 - This function is applied only to controls that have the “Allow multiple changes” check box selected on the “Filters” tab.
 - Multiple changes can only be made by a logged-in user.
 - If specific records are marked in the view table, only the selected records will be assigned a value. If no records are marked, all filtered records will be assigned a value.
- Checking this box determines whether the “Delete records in view table” icon should be available in the view table header, which is used to delete marked or filtered records in the view table.
 - Users with administrator privileges – if specific records are marked in the view table, only the marked records will be deleted. If no records are marked, all filtered records will be deleted!
 - Users without administrator privileges can only delete marked specific records, they do not have permission to delete all filtered records.
- Checking this box determines whether the “Mark records” icon should be available in the view table header, which is used to mark individual view table records in order to delete them or assign a value using a filter.
 - To the list of marked records – primary key values (“id” column) separated by a semicolon – it is possible to access using variables “#datagrid1#”, “#datagrid2#”, “#datagrid3#” etc. in the script. The index indicates the order of the view table in the edit form.

- **Activate marking records**

- Checking this box determines whether a check box should be automatically displayed at the beginning of each row of the view table to mark a record in order to delete it or assign a value using a filter, without using the “Mark records” icon located in the view table header.
 - The list of marked records – primary key values (column “id”) separated by a semicolon – can be accessed using the variables “#datagrid1#”, “#datagrid2#”, “#datagrid3#”, etc. in the script. The index indicates the order of the view table in the edit form.

- **Show sums of column**
 - Checking this box determines whether a row with the sum of the values of the individual columns should be displayed in the footer of the view table.
 - This function is applied only to TextBox controls of numeric data types that do not have the “Hide column total in view table” check box selected on the “General” tab.
- **Show only nested records**
 - Checking this box determines whether the “PID = ID record in form” constraint should be automatically appended to the database query definition.
- **Hide data source**
 - Checking this box determines whether the contents of the view table should be automatically hidden when the edit form is opened. Database records will not be displayed to the user until the “View” icon is clicked.
- **Snap to previous control**
 - Checking this box determines whether the control itself should be displayed to the right of the previous one in the edit form, or whether it will be displayed below the previous control in the usual way.

2.1.7 Aggregation query without grouping by date

General	Help	Rights	Administration
* Name	<input type="text"/>	<i>Dictionary...</i>	
Width	<input type="text"/> px	<i>10 - 10 000px</i>	
* Data source	Modify query		
Options	<input type="checkbox"/> Deny data export		
	<input type="checkbox"/> Show sums of columns		
	<input type="checkbox"/> Snap to previous control		
Save Save to all users Delete			

- **Deny data export**
 - Checking this box determines whether an icon should be displayed in the header of the view table that allows the displayed data to be exported from the view table to an XLS file.
- **Show sums of columns**
 - Checking this box determines whether a row with the sum of the values of the individual columns should be displayed in the footer of the view table.
 - This function is applied only to columns that do not use the command to hide the sum of the column using the syntax "Column @ -sum". A detailed description of the syntax of column names is given in the separate "Administrator's Guide".
- **Snap to previous control**
 - Checking this box determines whether the control itself should be displayed to the right of the previous one in the edit form, or whether it will be displayed below the previous control in the usual way.

2.1.8 Aggregation query with grouping by date

General

Help

Rights

Administration

*** Name** *Dictionary...*

Width px *10 - 10 000px*

*** Data source** **Modify query**

Options

Deny data export

Fill time gaps

Show sums of columns

Snap to previous control

Save

Save to all users

Delete

- **Deny data export**
 - Checking this box determines whether an icon should be displayed in the header of the view table that allows the displayed data to be exported from the view table to an XLS file.
- **Fill time gaps**
 - Checking this box determines whether time continuity should be ensured in the resulting data set in the column according to which the data is grouped. Where aggregated rows are missing, they will be automatically populated with all other columns set to "0".
- **Show sums of columns**
 - Checking this box determines whether a row with the sum of the values of the individual columns should be displayed in the footer of the view table.
 - This function is applied only to columns that do not use the command to hide the sum of the column using the syntax "Column @ -sum". A detailed description of the syntax of column names is given in the separate "Administrator's Guide".
- **Snap to the previous control**
 - Checking this box determines whether the control itself should be displayed to the right of the previous one in the edit form, or whether it will be displayed below the previous control in the usual way.

2.2 “View table” tab

General

View table

Details

Search

Help

Rights

Administration

Options

Show upper navigation toolbar

Show filters

Columns

Available

(ID)
 Full name
 Surname
 Name
 Title
 Login name
 Password
 Language
 Windows account
 E-mail
 M-Password
 Authorization group

>>
>
<
<<

Selected

(Empty)

&&
&
&
&

Records per page 20 v

Save

Save to all users

Delete

2.2.1 Options

- **Show upper navigation toolbar**
 - Checking this box determines whether a toolbar with icons for switching between pages should be displayed in the header of the view table.
 - By default, this toolbar is displayed in the footer of each view table if the number of data displayed is greater than the number of records on the page.
- **Show filters**
 - Checking this box determines whether the view table should allow filtering of database records.

2.2.2 Columns

- Define the default settings of view table columns.

2.2.3 The number of records per page

- For clarity, the look-up table uses the paging of the displayed records. This is useful in situations where the view table is retrieving large amounts of data.
- The number of records per page determines the maximum number of records that appear on one page. You can easily switch between the individual pages using the toolbar, which is contained in each view table in its footer, or optionally in the header.

2.3 “Details” tab

General	View table	Details	Search	Help	Rights	Administration																																										
<p>Options</p> <p><input type="checkbox"/> Show details</p> <p><input type="checkbox"/> Show tooltip</p>																																																
<p>Columns</p> <table border="1"> <thead> <tr> <th>Available</th> <th></th> <th>Selected</th> </tr> </thead> <tbody> <tr> <td>(ID)</td> <td></td> <td></td> </tr> <tr> <td>Full name</td> <td></td> <td></td> </tr> <tr> <td>Surname</td> <td></td> <td></td> </tr> <tr> <td>Name</td> <td></td> <td></td> </tr> <tr> <td>Title</td> <td></td> <td></td> </tr> <tr> <td>Login name</td> <td></td> <td></td> </tr> <tr> <td>Password</td> <td>»</td> <td></td> </tr> <tr> <td>Language</td> <td>></td> <td></td> </tr> <tr> <td>Windows account</td> <td><</td> <td></td> </tr> <tr> <td>E-mail</td> <td>«</td> <td></td> </tr> <tr> <td>M-Password</td> <td></td> <td></td> </tr> <tr> <td>Authorization group</td> <td></td> <td></td> </tr> <tr> <td>-</td> <td></td> <td></td> </tr> </tbody> </table>							Available		Selected	(ID)			Full name			Surname			Name			Title			Login name			Password	»		Language	>		Windows account	<		E-mail	«		M-Password			Authorization group			-		
Available		Selected																																														
(ID)																																																
Full name																																																
Surname																																																
Name																																																
Title																																																
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Language	>																																															
Windows account	<																																															
E-mail	«																																															
M-Password																																																
Authorization group																																																
-																																																
			<p>Save Save to all users Delete</p>																																													

2.3.1 Options

- **Show details**
 - Checking this box determines whether the view table should display the details of each record at the bottom of the view table.
- **Show tooltip**
 - Checking this box determines whether the view table should display the details of individual records in the tooltip when the mouse hovers over individual records.

2.3.2 Columns

- Define the default settings for detail columns.

2.4 “Search” tab

General	View table	Details	Search	Help	Rights	Administration
---------	------------	---------	---------------	------	--------	----------------

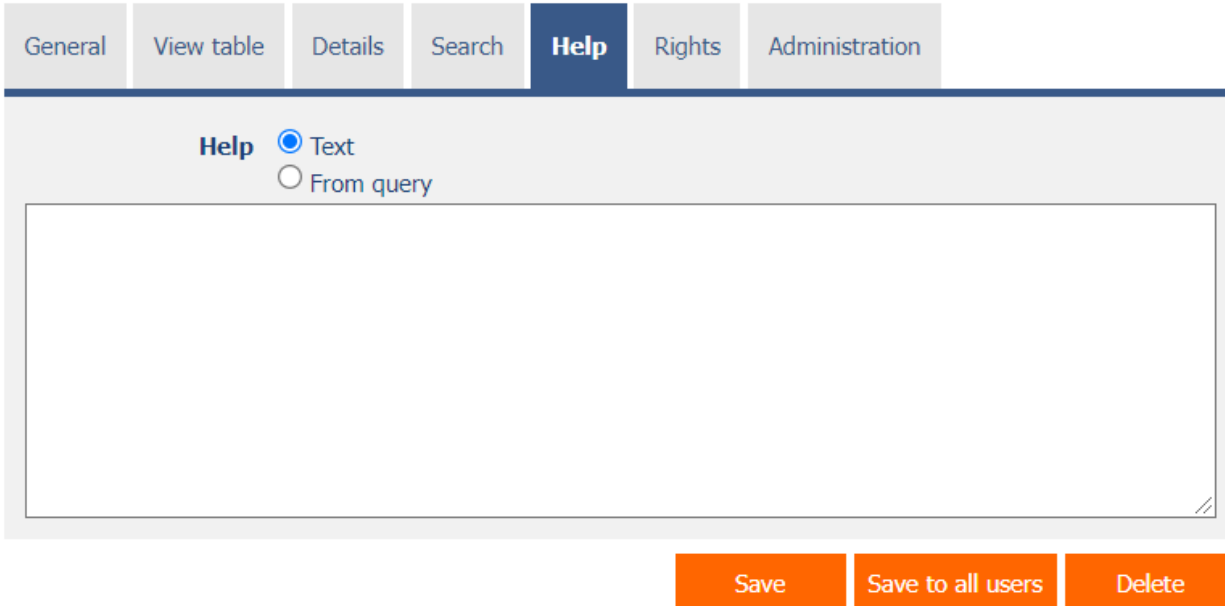
Options Activate search
 Show search results only

Save Save to all users Delete

2.4.1 Options

- **Activate search**
 - Checking this box determines whether a row with a search box and a “Search” button should be automatically displayed in the header of the view table.
- **Show search results only**
 - Checking this box determines whether the data in the view table should be displayed only when filling in the values in the form that are referenced by the database query constraints of that view table.

2.5 “Help” tab



General View table Details Search **Help** Rights Administration

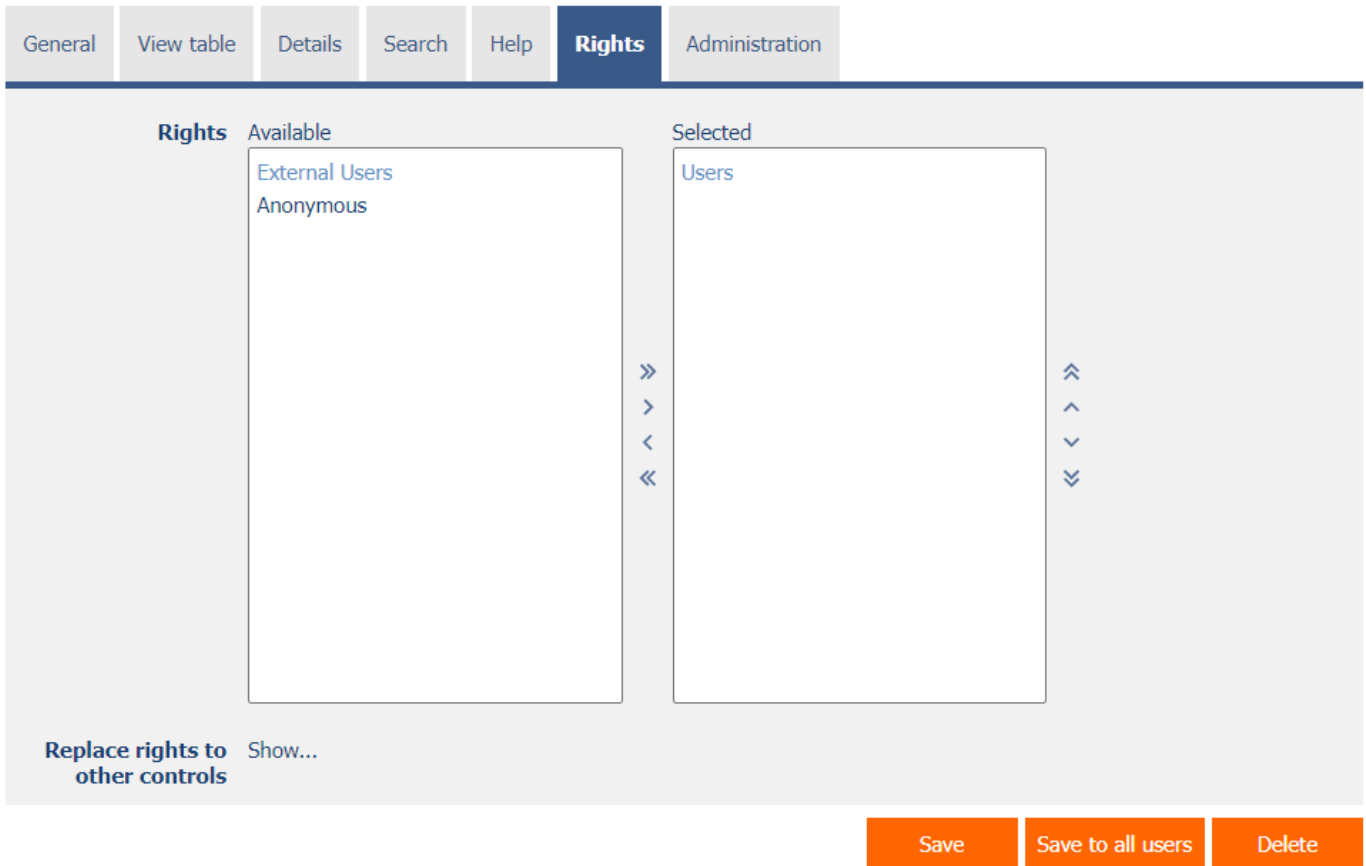
Help Text
 From query

Save Save to all users Delete

2.5.1 Help

- Help is the text displayed in the tooltip after clicking on the question mark icon, which is located in the header of the view table.
- Help text supports simple text formatting using wiki syntax:
 - `""Bold text""`
 - `"Italics"`
 - `""""Bold italics""""`
 - `""Text enclosed in double quotes""`
 - Lists:
 - `* Heading 1`
 - `** Subheading 1.1`
 - `** Subheading 1.2`
 - `* Heading 2`
 - `* Heading 3`
 - `# Numbered heading 1`
 - `## Numbered subheading 1.1`
 - `## Numbered subheading 1.2`
 - `# Numbered heading 2`
 - `# Numbered heading 3`
- The help radio button contains the following two types of help definitions:
 - **Text** – help text defines a manually entered text string located in a multi-line text field below the radio button
 - **From query** – the help text defines the result of a database query, which is evaluated when opening the edit form

2.6 “Rights” tab



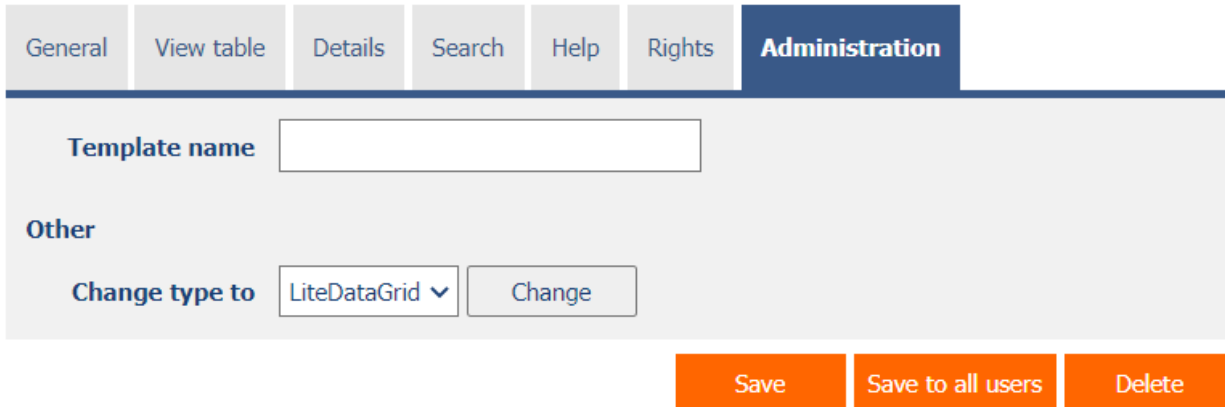
2.6.1 Rights

- Rights define a list of user groups and users who have permission to view the control on the edit form.

2.6.2 Replace rights to other controls

- The “Replace rights to other controls” function is used to unify the rights within the entire edit form for controls that are related in terms of rights.
- Thanks to the “Show...” link, it is possible to display a list of all controls in the edit form, including setting the rights of these controls. For each control, a check box is displayed that allows you to select the control. When saving a control, the same rights are then set for these selected controls.
- An alternative for unifying rights within the entire edit form is to display the report available from the “Subordinate object rights” tab in the edit form settings.

2.7 “Administration” tab



- The “Administration” tab is only displayed for existing controls.

2.7.1 Template name

- The template name is used to name the view table with the option to copy it when creating other view tables with the same source database table.
- When creating a new view table, you must first define the data source using a database query, and then all available templates are available in the “Templates” drop-down list on the “General” tab. After selecting a template, all parameters of the view table will be automatically pre-filled with data from the selected template.
- A list of all look-up tables that are marked as templates can be displayed using a report. A detailed description of the reports is given in a separate manual “Reports”.

2.7.2 Change type to

- The drop-down list offers the types of controls to which conversion of the control is supported.

3 Examples

3.1 Javascript functions

- `dg_Disable();`
- `dg_Enable();`
- `dg_HideColumn(DG123, 456);`
- `dg_HideColumn(el(DG123), 456);`
- `dg_HideHeader(DG123);`
- `dg_SearchColumns(DG123, [1, 2, 3]);`
- `dg_SearchColumns(el(DG123), [1, 2, 3]);`
- `dg_ShowColumn(DG123, 456);`
- `dg_ShowColumn(el(DG123), 456);`
- `dg_VisibleColumns(DG123, [1, 2, 3]);`
- `dg_VisibleColumns(el(DG123), [1, 2, 3]);`
- `var array = dg_Controls(el(DG123));`

3.2 Variables

- `#datagrid1#`
- `#datagrid2#`
- `#datagrid3#`